



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 7/30/2010
Subject: Review of Region 5 Data for R06 Deep Water Chalmette
From: David Schroeder *D.S.*
Region 5 Chicago Regional Laboratory
To: Region 6, US EPA
536 S. Clark St
Chicago, IL 60605

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: R06 Deep Water Chalmette

_____/_____/_____
Data Management Coordinator and Date Received

Date Transmitted: ____/____/____

Analyses included in this report:

RAM-DOSS



Environmental Protection Agency Region 5 Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA
536 S. Clark St
Chicago IL, 60605

Project: R06 Deep Water Chalmette
Project Number: T0033-100402-20100727-03
Project Manager: Kristie Warr

Reported:
Jul-30-10 13:27

ANALYSIS CASE NARRATIVE Analyst: David Schroeder (312) 353-3100

General Information

Seventeen samples were received by the Chicago Regional Laboratory for dioctyl sulfosuccinate (DOSS) analysis July 29, 2010. Matrix Spike and Matrix Spike Duplicate analysis were performed for each sample set. Additionally, Matrix Spike and Matrix Spike Duplicate analysis were performed on a second sample collected at Grand Isle, LA, July 26, 2010. The samples were received at or less than 6°C.

Sample Analysis and Results

Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Region 5 Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS detection verification level (6 ppb) or the reporting level (20 ppb).

Many of the samples were observed with a notable yellow color. The sample collected Grand Isle, LA, July 26, 2010 contained particulates that floated on the surface of the sample and to the walls of the sample container.

Quality Control

B100758-MSD2 DOSS and surrogate recoveries were greater than the 150% quality control limit and flagged biased high. The B100758-MS2 and B100758-BLK1 were within the quality control limits; therefore no qualifiers are required for 1007042-01 or B100758-DUP2.

All quality control criteria not mentioned met acceptance limits stated in the method.

DS



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Project Number: T0033-100402-20100727-03
Project Manager: Kristie Warr

Reported:
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ANALYSIS CASE NARRATIVE Analyst: David Schroeder (312) 353-3100

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Many of the samples were observed with a notable yellow color. The sample collected Grand Isle, LA, July 26, 2010 contained particulates that floated on the surface of the sample and to the walls of the sample container.

The 1007042 results are stored with 1006041.

Quality Control

B100758-MSD2 DOSS and surrogate recoveries were greater than the 150% quality control limit and flagged biased high. The B100758-MS2 and B100758-BLK1 were within the quality control limits; therefore no qualifiers are required for 1007042-01 or B100758-DUP2.

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Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Region 5 Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS detection verification level (6 ppb) or the reporting level (20 ppb).

Many of the samples were observed with a notable yellow color. The sample collected Grand Isle, LA, July 26, 2010 contained particulates that floated on the surface of the sample and to the walls of the sample container.

The 1007043 results are stored with 1006041.

Quality Control

B100758-MSD2 DOSS and surrogate recoveries were greater than the 150% quality control limit and flagged biased high. The B100758-MS2 and B100758-BLK1 were within the quality control limits; therefore no qualifiers are required for 1007042-01 or B100758-DUP2.

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General Information

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Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Region 5 Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS detection verification level (6 ppb) or the reporting level (20 ppb).

Many of the samples were observed with a notable yellow color. The sample collected Grand Isle, LA, July 26, 2010 contained particulates that floated on the surface of the sample and to the walls of the sample container.

The 1007044 results are stored with 1006041.

Quality Control

B100758-MSD2 DOSS and surrogate recoveries were greater than the 150% quality control limit and flagged biased high. The B100758-MS2 and B100758-BLK1 were within the quality control limits; therefore no qualifiers are required for 1007042-01 or B100758-DUP2.

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Project Manager: Kristie Warr

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T005-2337-100727-SW-1	1007041-01	Water	Jul-27-10 09:00	Jul-29-10 08:50
T005-2337-100727-SW-2	1007041-02	Water	Jul-27-10 09:00	Jul-29-10 08:50
T005-1336-100727-SW-1	1007041-03	Water	Jul-27-10 10:00	Jul-29-10 08:50
T005-2333-100727-SW-1	1007041-04	Water	Jul-27-10 09:30	Jul-29-10 08:50
T005-1333-100728-SW-1	1007042-01	Water	Jul-28-10 08:40	Jul-29-10 08:50
T005-2327-100728-SW-1	1007042-02	Water	Jul-28-10 09:35	Jul-29-10 08:50
T005-2331-100728-SW-1	1007042-03	Water	Jul-28-10 10:05	Jul-29-10 08:50
T005-2338-100728-SW-1	1007042-04	Water	Jul-28-10 09:15	Jul-29-10 08:50
T005-SC040-100728-SW-1	1007042-05	Water	Jul-28-10 11:05	Jul-29-10 08:50
T001-2001-100727-SW-1	1007043-01	Water	Jul-27-10 09:30	Jul-29-10 08:50
T001-2002-100727-SW-1	1007043-02	Water	Jul-27-10 11:15	Jul-29-10 08:50
T001-2003-100727-SW-1	1007043-03	Water	Jul-27-10 12:15	Jul-29-10 08:50
T007-1331-100727-SW-1	1007044-01	Water	Jul-27-10 09:10	Jul-29-10 08:50
T007-SG028-100726-SW-1	1007044-02	Water	Jul-26-10 14:30	Jul-29-10 08:50
T007-BG03-100727-SW-1	1007044-03	Water	Jul-27-10 12:20	Jul-29-10 08:50
T007-1327-100727-SW-1	1007044-04	Water	Jul-27-10 10:20	Jul-29-10 08:50
T007-2336-100727-SW-1	1007044-05	Water	Jul-27-10 09:45	Jul-29-10 08:50



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Analysis by LC MS MS

US EPA Region 5 Chicago Regional Laboratory

T005-2337-100727-SW-1 (1007041-01) Water Sampled: Jul-27-10 09:00 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 148 84.6 % 50-150 " " "

T005-2337-100727-SW-2 (1007041-02) Water Sampled: Jul-27-10 09:00 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 144 83.8 % 50-150 " " "

T005-1336-100727-SW-1 (1007041-03) Water Sampled: Jul-27-10 10:00 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 147 78.5 % 50-150 " " "

T005-2333-100727-SW-1 (1007041-04) Water Sampled: Jul-27-10 09:30 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

David Schroeder, Chemist



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Reported:
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Analysis by LC MS MS

US EPA Region 5 Chicago Regional Laboratory

T005-2333-100727-SW-1 (1007041-04) Water Sampled: Jul-27-10 09:30 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: DOSS-D34	146			83.4 %		50-150	B100758	Jul-29-10	Jul-29-10

T005-1333-100728-SW-1 (1007042-01) Water Sampled: Jul-28-10 08:40 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 131 74.8 % 50-150 " " "

T005-2327-100728-SW-1 (1007042-02) Water Sampled: Jul-28-10 09:35 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 132 76.4 % 50-150 " " "

T005-2331-100728-SW-1 (1007042-03) Water Sampled: Jul-28-10 10:05 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 139 77.6 % 50-150 " " "

T005-2338-100728-SW-1 (1007042-04) Water Sampled: Jul-28-10 09:15 Received: Jul-29-10 08:50

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Analysis by LC MS MS

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T005-2338-100728-SW-1 (1007042-04) Water Sampled: Jul-28-10 09:15 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 143 81.6 % 50-150 " " "

T005-SC040-100728-SW-1 (1007042-05) Water Sampled: Jul-28-10 11:05 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100758	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 126 72.5 % 50-150 " " "

T001-2001-100727-SW-1 (1007043-01) Water Sampled: Jul-27-10 09:30 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100759	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 144 84.5 % 50-150 " " "

T001-2002-100727-SW-1 (1007043-02) Water Sampled: Jul-27-10 11:15 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100759	Jul-29-10	Jul-29-10

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US EPA Region 5 Chicago Regional Laboratory

T001-2002-100727-SW-1 (1007043-02) Water Sampled: Jul-27-10 11:15 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: DOSS-D34	125			72.4 %		50-150	B100759	Jul-29-10	Jul-29-10

T001-2003-100727-SW-1 (1007043-03) Water Sampled: Jul-27-10 12:15 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100759	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 136 79.0 % 50-150 " " "

T007-1331-100727-SW-1 (1007044-01) Water Sampled: Jul-27-10 09:10 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100759	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 156 89.9 % 50-150 " " "

T007-SG028-100726-SW-1 (1007044-02) Water Sampled: Jul-26-10 14:30 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100759	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 138 78.5 % 50-150 " " "

T007-BG03-100727-SW-1 (1007044-03) Water Sampled: Jul-27-10 12:20 Received: Jul-29-10 08:50

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Analysis by LC MS MS

US EPA Region 5 Chicago Regional Laboratory

T007-BG03-100727-SW-1 (1007044-03) Water Sampled: Jul-27-10 12:20 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100759	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 151 85.8 % 50-150 " " "

T007-1327-100727-SW-1 (1007044-04) Water Sampled: Jul-27-10 10:20 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100759	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 171 97.5 % 50-150 " " "

T007-2336-100727-SW-1 (1007044-05) Water Sampled: Jul-27-10 09:45 Received: Jul-29-10 08:50

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100759	Jul-29-10	Jul-29-10

Surrogate: DOSS-D34 162 94.6 % 50-150 " " "

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Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B100758 - *** DEFAULT PREP ***

Blank (B100758-BLK1)

Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L					

Surrogate: DOSS-D34 250 " 201.0 124 50-150

LCS (B100758-BS1)

Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	185			20.0	ug/L	203.0		90.9	50-150	

Surrogate: DOSS-D34 175 " 203.0 86.0 50-150

LCS Dup (B100758-BSD1)

Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	188			20.0	ug/L	203.0		92.5	50-150	1.67 30

Surrogate: DOSS-D34 181 " 203.0 89.1 50-150



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Batch B100758 - *** DEFAULT PREP ***

Duplicate (B100758-DUP1)				Source: 1007041-01				Prepared & Analyzed: Jul-29-10			
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	
dioctyl sulfosuccinate	U	U		20.0	ug/L		U			200	

Surrogate: DOSS-D34 138 " 173.9 79.3 50-150

Duplicate (B100758-DUP2)				Source: 1007042-01				Prepared & Analyzed: Jul-29-10			
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	
dioctyl sulfosuccinate	U	U		20.0	ug/L		U			200	

Surrogate: DOSS-D34 134 " 172.4 78.0 50-150

Matrix Spike (B100758-MS1)				Source: 1007041-01				Prepared & Analyzed: Jul-29-10			
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	
dioctyl sulfosuccinate	136			20.0	ug/L	174.7	U	77.8	50-150		

Surrogate: DOSS-D34 123 " 174.7 70.3 50-150

Matrix Spike (B100758-MS2)				Source: 1007042-01				Prepared & Analyzed: Jul-29-10			
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Batch B100758 - *** DEFAULT PREP ***

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	123			20.0	ug/L	173.2	U	71.0	50-150		
Surrogate: DOSS-D34	109				"	173.2		63.1	50-150		

Matrix Spike Dup (B100758-MSD1) Source: 1007041-01 Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	132			20.0	ug/L	175.4	U	75.1	50-150	3.09	30
Surrogate: DOSS-D34	118				"	175.4		67.4	50-150		

Matrix Spike Dup (B100758-MSD2) Source: 1007042-01 Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	336	K		20.0	ug/L	173.9	U	193	50-150	92.8	30
Surrogate: DOSS-D34	317				"	173.9		182	50-150		



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Batch B100759 - *** DEFAULT PREP ***

Blank (B100759-BLK1)

Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	U	U		20.0	ug/L						

Surrogate: DOSS-D34 227 " 200.0 114 50-150

LCS (B100759-BS1)

Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	170			20.0	ug/L	203.0		84.0	50-150		

Surrogate: DOSS-D34 167 " 203.0 82.3 50-150

LCS Dup (B100759-BSD1)

Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	157			20.0	ug/L	186.0		84.6	50-150	7.95	30

Surrogate: DOSS-D34 145 " 186.0 77.8 50-150



Environmental Protection Agency Region 5 Chicago Regional Laboratory

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Region 6, US EPA
536 S. Clark St
Chicago IL, 60605

Project: R06 Deep Water Grand Isle
Project Number: T0033-100403-20100727-007
Project Manager: Kristie Warr

Reported:
Jul-30-10 13:27

Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B100759 - *** DEFAULT PREP ***

Duplicate (B100759-DUP1)			Source: 1007043-01			Prepared & Analyzed: Jul-29-10					
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L		U				200

Surrogate: DOSS-D34 144 " 175.4 82.2 50-150

Duplicate (B100759-DUP2)			Source: 1007044-01			Prepared & Analyzed: Jul-29-10					
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L		U				200

Surrogate: DOSS-D34 163 " 173.9 93.5 50-150

Duplicate (B100759-DUP3)			Source: 1007044-02			Prepared & Analyzed: Jul-29-10					
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L		U				200

Surrogate: DOSS-D34 149 " 173.9 85.9 50-150

Matrix Spike (B100759-MS1) Source: 1007043-01 Prepared & Analyzed: Jul-29-10



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Batch B100759 - *** DEFAULT PREP ***

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	131			20.0	ug/L	175.4	U	74.6	50-150		
Surrogate: DOSS-D34	126				"	175.4		71.6	50-150		

Matrix Spike (B100759-MS2)

Source: 1007044-01

Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	139			20.0	ug/L	173.9	U	79.9	50-150		
Surrogate: DOSS-D34	127				"	173.9		72.7	50-150		

Matrix Spike (B100759-MS3)

Source: 1007044-02

Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	131			20.0	ug/L	181.8	U	71.9	50-150		
Surrogate: DOSS-D34	124				"	181.8		68.0	50-150		

Matrix Spike Dup (B100759-MSD1)

Source: 1007043-01

Prepared & Analyzed: Jul-29-10



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Batch B100759 - *** DEFAULT PREP ***

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	137			20.0	ug/L	170.9	U	80.1	50-150	4.58	30

Surrogate: DOSS-D34 131 " 170.9 76.8 50-150

Matrix Spike Dup (B100759-MSD2) Source: 1007044-01 Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	143			20.0	ug/L	172.4	U	83.0	50-150	2.88	30

Surrogate: DOSS-D34 135 " 172.4 78.4 50-150

Matrix Spike Dup (B100759-MSD3) Source: 1007044-02 Prepared & Analyzed: Jul-29-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	154			20.0	ug/L	176.2	U	87.5	50-150	16.5	30

Surrogate: DOSS-D34 132 " 176.2 74.8 50-150



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Notes and Definitions

- K The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
- U Not Detected
- NR Not Reported